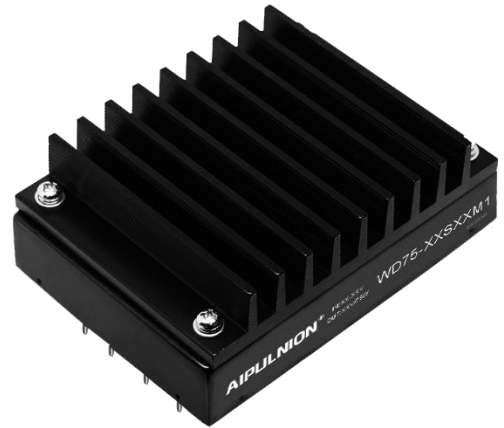


Typical Features

- ◆ Wide input voltage range (2:1 or 4:1)
- ◆ Typical transfer efficiency 87%
- ◆ Switching frequency: 300KHz
- ◆ Over current/Short circuit protection, Self-recovery
- ◆ Input-output isolated
- ◆ PCB mounting
- ◆ Metal case, Low output Ripple



Technical Parameters: **Test Condition:** Unless otherwise specified, data in the datasheet should be tested under the conditions of inputting nominal voltage, pure resistance rated load and Ta=25°C.

Input Specifications	Min(v)	Nom(v)	Max(v)	Notes
Input Voltage Vdc	9	12	18	2:1
	18	24	36	2:1
	36	48	72	2:1
	72	110	144	2:1
Remote Control (Low level remote)	ON	High level or Suspended-Switch on		3.5Vdc ~ +Vin
	OFF	Low level or connect to ground- Switch off		≤0.3Vdc
Input Under Voltage Protection	Lower than the low-end of input voltage, output switch off, Self-recovery			

Output Specifications

Output Voltage Accuracy		Vo1	±1.0%
Line Regulation	Nominal Load, full voltage range	Vo1	±0.2%
Load Regulation	20% ~ 100% nominal load	Vo1	±0.5%
Ripple & Noise	20MHz BM Full Load Vo≤5.0V, ≤50mVp-p; Vo≥48V, ≤180mVp-p; Other, ≤100mVp-p		
Dynamic Response	25% Nominal load step change	ΔVo1/Δt	±4.0/500μ s%
Output Voltage Adjustment	Nominal output voltage	TRIM	±10% Adjustable
Turn-on Delay Time	Typical value		≤200mS

General Specifications

Switching Frequency	300KHz (Typical)	330KHz(Max.)
Operating Temperature	Free air convection	-25°C ~ +55°C

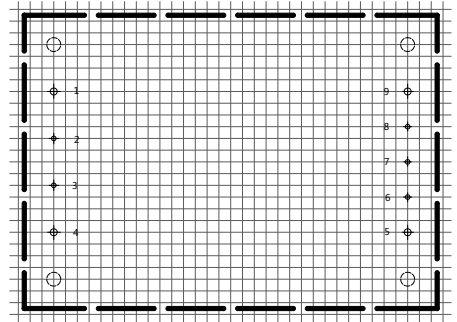
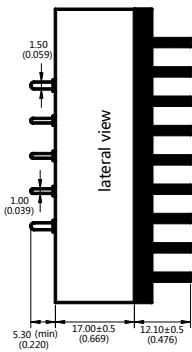
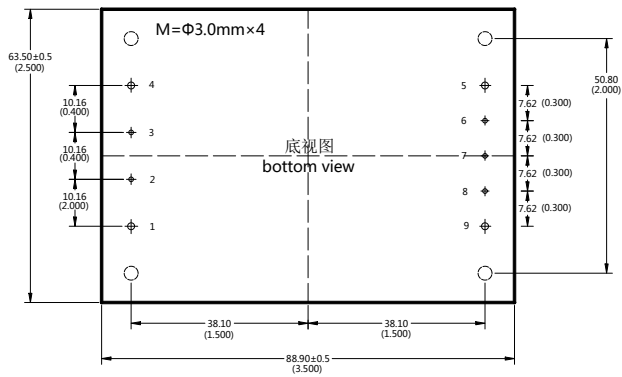
Storage Temperature			-40°C ~ +105°C
Max Case Temperature			+100°C
Relative Humidity			10%~90%
Case Material	Metal case		
Isolation Voltage	Input-output 1500 Vdc \leq 0.5mA/1min; Input-case 500Vdc \leq 0.5mA / 1min		
Meantime Between Failures	2X10 ⁵ Hrs		

Typical Product List

Part No.	Input voltage range	Output voltage/ current		Input Current	Max. Capacitive Load	Efficiency (Typ.)
		Voltage(Vdc)	Current(mA)	Nominal Voltage (typ.) Full load(mA)	μ F	%
WD75-12S05M1	12 V (9~18V)	5	15000	7813	6800	80
WD75-12S12M1		12	6250	7268	1500	86
WD75-12S24M1		24	3125	7268	1000	86
WD75-24S05M1	24V (18~36V)	5	15000	3721	6800	84
WD75-24S12M1		12	6250	3592	1500	87
WD75-24S24M1		24	3125	3552	1000	88
WD75-48S05M1	48V (36~72V)	5	15000	1883	6800	83
WD75-48S12M1		12	6250	1817	1500	86
WD75-48S24M1		24	3125	1776	1000	88
WD75-110S05M1	110V (72~144V)	5	15000	812	6800	84
WD75-110S12M1		12	6250	775	1500	88
WD75-110S15M1		15	5000	766	1000	89
WD75-110S24M1		24	3125	766	1000	89

Note: due to space limitations ,above is only a part of our product list, please contact our sales team for more items.

Packing Dimension



Unit:mm
 Printed board vertical view
 Grid:2.54mm(0.1 inch)
 General tolerance: ± 0.25mm
 Pin diameter tolerance: ±0.10mm

Note : 1,4,5,9,pin Φ1.5mm , others Φ1mm

Pin Function

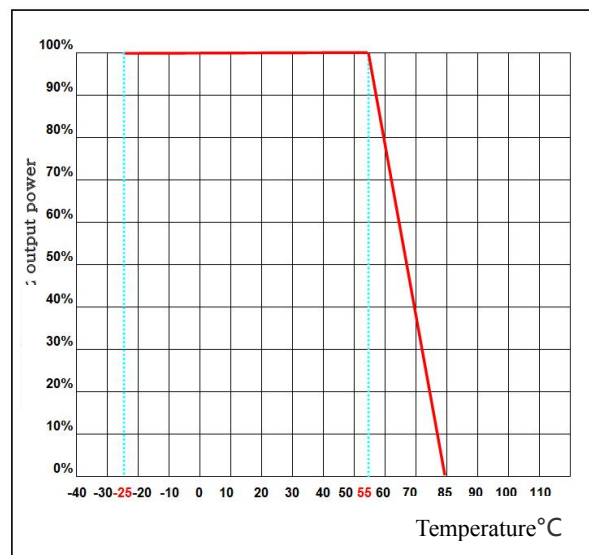
Single(S)	1	2	3	4	5	6	7	8	9
	-Vin	REM	CASE	+Vin	+Vout	+S	TRIM	-S	GND

* Note: If the definition of pin is not in accordance with the model selection manual, please refer to the label on actual item.

Packing Dimension

Packing Code	L x W x H	
M1	88.90 × 63.50 × 17.00mm	3.500 × 2.500 × 0.669inch

Temperature Curve



Ripple & Noise Test: (Twisted Pair Method 20MHZ bandwidth)

Test Method:

(1) 12# twisted pair to connect, Oscilloscope bandwidth set as 20MHz, 100M bandwidth probe, terminated with 0.1uF polypropylene capacitor and 47uF high frequency low resistance electrolytic capacitor in parallel, oscilloscope set as Sample pattern.

(2) Input terminal connect to power supply, output terminal connect to electronic load through jig plate, Use 30cm±2 cm sampling line, Power line selected from corresponding diameter wire with insulation according to the flow of output current.

